

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1. (currently amended) A transmission power control method
2 for controlling the power to transmit to ~~the~~ a distant party,
3 comprising the steps of:

4 controlling an adjustable digital-to-analog converter for
5 generating an analog baseband signal to be input to a
6 modulator for frequency-converting a transmission
7 signal to a signal in an IF band, and
8 controlling a plurality of variable power amplifiers for
9 variably amplifying the transmission signal modulated
10 by the modulator.

1 2. (previously presented) A transmission power control
2 method according to claim 1, wherein a control ratio of the
3 variable power amplifiers is modified and at least one of series
4 and parallel control in a control range is made in the
5 controlling a plurality of variable power amplifiers step.

1 3. (original) A transmission power control method according
2 claim 2, further comprising:

3 a detection step of detecting a state of at least one of a
4 local station and a distant station; and
5 a modification step of modifying the control ratio according
6 to the detected state.

1 4. (previously presented) A transmission power control
2 method according to claim 3, wherein a plurality of states of at
3 least one of the local station and the destination station are
4 detected in the detection step, and wherein the control ratio is
5 modified by using fuzzy control rules and fuzzy inference that
6 are based on the plurality of states in the modification step.

1 5. (original) A transmission power control method according
2 to claim 3, wherein the control ratio according to the state of
3 at least one of the local station and the distant station is
4 adaptively modified in the modification step.

1 6. (original) A transmission power control method according
2 to claim 1, wherein a control sensitivity of each of the
3 plurality of variable power amplifiers differs from each other.

1 7. (currently amended) A transmission power control method
2 for controlling a power to transmit to a distant party,
3 comprising the steps of:

4 controlling a plurality of voltage controllers; and ~~that~~
5 controlling, using said plurality of voltage controllers, a
6 power amplifier for amplifying a transmission signal
7 via separate bias systems.

1 8. (previously presented) A transmission power control
2 method according to claim 7, wherein a control ratio of the
3 voltage controllers is modified and at least one of series and
4 parallel control in a control range is made in the voltage
5 controller controlling step.

1 9. (previously presented) A transmission power control
2 method according to claim 8, further comprising:
3 a detection step of detecting a state of at least one of a
4 local station and a distant station; and
5 a modification step of modifying the control ratio according
6 to the detected state.

1 10. (previously presented) A transmission power control
2 method according to claim 9, wherein a plurality of states of at
3 least one of the local station and the destination station are

Reply to Office action of November 22, 2004

4 detected in the detection step, and wherein the control ratio is
5 modified by using fuzzy control rules and fuzzy inference that
6 are based on the plurality of states in the modification step.

1 11. (original) A transmission power control method
2 according to claim 9, wherein the control ratio according to the
3 state of at least one of a local station and a distant station is
4 adaptively modified in the modification step.

1 12. (original) A transmission power control method according
2 to claim 7, wherein a control sensitivity of each of the
3 plurality of variable power amplifiers differs from each other.

1 13. (currently amended) A radio communications apparatus
2 equipped with a transmission power control feature for
3 controlling a transmission power to be transmitted to a distant
4 station, comprising:

5 a variable power amplification unit including:
6 an adjustable digital-to-analog converter for
7 generating an analog transmission signal,
8 a modulator for inputting said analog transmission
9 signal and frequency-converting the transmission
10 signal to a signal in an IF band,
11 and a plurality of variable power amplifiers for
12 variably amplifying the transmission signal
13 modulated by the modulator; and
14 a variable power amplification control unit for controlling
15 the variable power amplification unit.

1 14. (previously presented) Radio communications apparatus
2 according to claim 13, wherein the variable power amplification
3 control unit modifies a control ratio of the variable power
4 amplifiers and makes at least one of series and parallel control
5 in the control range.

1 15. (previously presented) Radio communications apparatus
2 according to claim 14, further comprising:

3 a state detection unit for detecting a state of at least one
4 of a local station and a distant station, wherein
5 the variable power amplification control unit modifies the
6 control ratio according to the detected state.

1 16. (previously presented) Radio communications apparatus
2 according to claim 15, wherein the variable power amplification
3 control unit modifies the control ratio based on fuzzy control
4 rules and fuzzy inference.

1 17. (original) Radio communications apparatus according to
2 claim 15, wherein the variable power amplification control unit
3 adaptively modifies the control ratio according to the state of
4 at least one of a local station and a distant station.

1 18. (original) Radio communications apparatus according to
2 claim 13, wherein a control sensitivity of each of the plurality
3 of variable power amplifiers differs from each other.

1 19. (previously presented) A radio communications apparatus
2 equipped with a transmission power control feature for
3 controlling a transmission power to be transmitted to a distant
4 station, comprising:

5 a power amplifier for amplifying a transmission signal;
6 a plurality of voltage controllers for controlling the power
7 amplifier via separate bias systems; and
8 a control unit for controlling the plurality of voltage
9 controllers .

1 20. (original) Radio communications apparatus according to
2 claim 19, wherein the control unit for controlling voltage
3 controllers modifies a control ratio of the voltage controllers

4 and make at least one of series and parallel control in the
5 control range.

1 21. (original) Radio communications apparatus according to
2 claim 20, further comprising:

3 a detection unit for detecting a state of at least one of a
4 local station and a distant station wherein
5 the control unit for controlling voltage controllers
6 modifies the control ratio according to the detected
7 state.

1 22. (previously presented) Radio communications apparatus
2 according to claim 21, wherein the control unit for controlling
3 the voltage controllers modifies the control ratio based on fuzzy
4 control rules and fuzzy inference.

1 23. (original) Radio communications apparatus according to
2 claim 21, wherein the control unit for controlling the voltage
3 controllers adaptively modifies the control ratio according to
4 the state of at least one of a local station and a distant
station.

1 24. (original) Radio communications apparatus according to
2 claim 19, wherein the control sensitivity of each of the
3 plurality of variable power amplifiers differs from each other.